

WHAT IS CLAIMED IS:

1. A frequency converter for a cable television transmitter, comprising: a frequency conversion unit that executes frequency mixing of an intermediate frequency signal and a local oscillator signal to convert into a high frequency signal corresponding to a transmission channel, and plural stage variable tuning filters connected in cascade to an output of the frequency conversion unit, each tuned to the high frequency signal corresponding to the transmission channel.

2. A frequency converter for a cable television transmitter according to Claim 1, wherein at least one of the plural variable tuning filters is equipped with a trap circuit that removes the local oscillator signal.

3. A frequency converter for a cable television transmitter, according to Claim 1, wherein the plural stage variable tuning filters are configured in three stages.

4. A frequency converter for a cable television transmitter according to Claim 1, wherein the plural stage variable tuning filters are configured such that adjustment voltages from pass band adjusting means independently adjust the pass band characteristics.

5. A frequency converter for a cable television transmitter according to Claim 4, wherein the pass band adjusting means includes a memory that stores the pass band characteristics of the plural stage variable tuning filters, and a digital to analog converter that generates a dc adjustment voltage based on a pass band characteristic read from the memory.